J. J. Newberry
"
Wells. Coll.

J. J. Newberry
Cleveland, Medical College

INDEX RERUM:

OR

INDEX OF SUBJECTS;

INTENDED AS A MANUAL,

TO AID THE

STUDENT AND THE PROFESSIONAL MAN,

IN PREPARING HIMSELF FOR USEFULNESS.

WITH

AN INTRODUCTION,

ILLUSTRATING ITS UTILITY AND METHOD OF USE.

BY REV. JOHN TODD,
PASTOR OF THE EDWARDS CHURCH, NORTHAMPTON.

Nocturnâ versate manu, versate diurnâ.—Hor.

Fourth Edition.

NORTHAMPTON.....J. H. BUTLER.

BOSTON....Crocker & Brewster, and C. C. Little & James Brown. NEW HAVEN....A. H. Maltby.
NEW YORK....Collins, Keese & Co. Robinson, Pratt & Co. and D. Appleton & Co.
PHILADELPHIA....W. Marshall & Co. BUFFALO....E. Butler.

1839.

NOTE TO THE SECOND EDITION.

This work has now been before the public a single year, and though no effort has been made to draw notice towards it, yet the sale of one large edition, the unsolicited testimony of many gentlemen who have spoken of it in terms sufficiently flattering, together with the fact, that more than one imitation has followed in its track, give the Author the pleasure of believing that he did not mistake the evidence that such a work was needed, and would be useful.

If it will not be thought out of place, he would respectfully refer those who use this book, to the chapters on "*Study*," "*Habits*," and "*Reading*," in his "Student's Manual," for more full directions, and he would ardently hope, for inducements to make the most of their opportunities.

Northampton, Jan. 1, 1835.

INTRODUCTION.

The plan of the following sheets grew out of the author's own wants, and his repeated attempts to supply these wants. Its utility has been tested by his own experience. In conversation with gentlemen of different professions, to whom he has shewn his own Index, there has been but one opinion expressed, a strong approbation of the plan, and an earnest wish that it may become the property of every student. Its only claim is, that it will aid the diligent student, and if perseveringly followed, it will at the end of a very few years, place a fund of knowledge at his ready command, which no money can purchase.

Should any one procure this Book with the expectation that it will supersede labor and study, he will be deservedly disappointed. No plans or inventions can ever do that. But if he hopes it will, with a very moderate share of time and labor spent upon it, yield him a great reward, I think I may venture to promise that he will not be disappointed.

The Common-place Book of Locke is the only one that has come into much notice; and if that has, it is not owing to any intrinsic merit which it possesses, but to its bearing his own great name, and professing to be the result of his experience. But neither that nor any other Common-place Book which I have ever seen, will either come into any thing like extensive use, or be of any essential advantage to the student, and the man of literary habits. The reason is perfectly obvious to any one who has tried to use them for any length of time. They require too much time, and too much labor. Every thing that is saved must be copied out in full, and then noted also in the Index. Few have the time, and fewer still the patience to do this. Books are so common, and so constantly multiplying, that few have the courage to undertake to make extracts, and to copy what is really valuable. I have seen multitudes of such books commenced, but have seen but very few which were not abandoned at an early hour.

Every one is aware that we frequently want the thoughts, or the materials of thought with which we have met in books which we have read, but which, though now sought after in every corner of the memory, are not to be found. Their faint impressions are seen, dim, like the ghosts of Ossian, but too distant and too undefined, to be of any use. Nor can we recollect the books in which we met them. We frequently too, wish to recall a fact, or a striking passage, or a valuable discussion, but the memory is tasked in vain. Few are aware, unless they have bestowed particular thought on the subject, how much of all our valuable reading is lost, because we retain only faint impressions of it, and have no method of recalling it.

Let a young man when he begins life, be in the habit of making an Index to all that he reads which is truly valuable, (and he ought to read nothing else,) and at the age of thirty-five or forty, he has something of his own, and which no price could purchase. Many would think hundreds of dollars well spent, could they purchase what they have thrown away; and what each one might most easily save for himself; and to aid in saving which, this Book is prepared.

One of the most distinguished and accomplished scholars of whom this or any other country can boast,* makes the following remarks: "Old-fashioned economists will tell you never to pass an old nail, or an old horse-shoe, or buckle, or even a pin, without taking it up; because although you may not want it now, you will find a use for it some time or other. I say the same thing to you with regard to knowledge. However useless it may appear to you, at the moment, seize upon all that is fairly within your reach. For there is not a fact, within the whole circle of human observation, nor even a fugitive anecdote that you read in a newspaper, or hear in conversation, that will not come in play, some time or other: and occasions will arise when they will, involuntarily, present their dim shadows in the train of your thinking and reasoning, as belonging to that train, and you will regret that you cannot recall them more distinctly."

This is certainly a valuable thought, and a valuable opinion of a great man. It is appropriate to my subject and design. I read it some two or three years since. And now, how am I to recall it, when needed? I cannot copy out all such valuable

* William Wirt.

thoughts with which I meet; and it is in vain to command the memory to retain them. Making extracts with the pen is so tedious, that the very name of a Common-place Book is associated with drudgery, and wearisomeness. But by the Index which I make out, I can preserve this, or any other extract which I wish, and that readily.

Some may think I have done little to aid them, by laying out the work of years. I might indeed, have published my own Index Rerum, and it would probably have been acceptable to some in my own profession. But it would be of but little value to any one of another profession. Every man ought to make out his own Index, according to his profession, employments, habits of reading and thinking. An Index filled out, if confined to one profession, or one kind of reading, would be too contracted for general use; and if it embraced the whole circle of reading, it would be too voluminous.

Some may hesitate about commencing such a book, since their youth is past, and the day in which to lay up knowledge seems also to be past. Such, however, have special need of the aid here offered, and will receive special benefit from it, because it is never too late to read to advantage, and because knowledge, like the seed of the fruit-tree which you put into the ground to-day, will yield its fruits soon; and because also, memory, as life advances, becomes more treacherous, and needs something to assist it. I feel confident that the plan is as well adapted to those who have lived past their youth, as to any other class.

This idea of publishing blank sheets is not very cheering to the fame of authorship; but mortified pride may have this consoling reflection, that many who fill out their sheets, had better have left them blank; and that each one can fill out this book more to his own satisfaction and benefit, than the most gifted mind could do for him.

DIRECTIONS FOR USING THIS INDEX.

1. Read nothing which is not worth remembering, and which you may not wish hereafter to review. Have your Index at hand, and when you meet with any thing of interest, just note it down, the subject, the Book, and the page, and any word designating its qualities, which you may please, according to the method hereafter described. The Index should be your constant companion when you read.

2. Make your Index according to subjects as much as possible, selecting that word which conveys the best idea of the subject.

3. You will find the Index ruled with blue ink, with a wide margin on the left hand of each page. The margin is to contain the word selected as a guide to the subject noted down. On the corners of the page, you will find the letters of the alphabet (capitals) and in the center, the first five vowels, a. e. i. o. u. Each letter of the alphabet has two pages to each of the vowels, and of course, each letter has ten pages.

4. When you read any thing which you may hereafter need, place the principal word in the margin, under the first letter in that word, and the first vowel in it. I will here give some examples as they stand in my own Index. Suppose I wish to note something relating to America. I turn to A. and the vowel e. because A. is the first letter, and e. is the first vowel—thus:

AMERICA,	supposed to be known in the time of Homer: Thomas' Hist. Print. vol. 1. p. 20.
ATHEISM,	of France, picture of: Schlegel's Lect. v. 2. p. 199.
BRADFORD,	Governor, notice of: Am. Quart. Rev. v. 2. p. 497. this under B. a.
BROUGHAM,	graphic and powerful description of: Port. Rhet. Reader, p. 248.
CLINTON,	De Witt, Memoir of, &c. (good) Am. Quart. Rev. v. 5. p. 475. this under C. i.
CHRISTIAN,	religion, services rendered to mankind: Chateaub. Beaut. Christianity, p. 453.
DANIEL,	analysis of the book of: Con. Ev. Mag. v. 4. p. 41. this under D. a.
DIFFICULTIES,	of our probation considered: Butler's Anal. part 1. ch. 4.
DESTRUCTION,	of Jerusalem, accurately described: Smith's view of the Hebs. Chap. 1.
ELOQUENCE,	remarks upon, (good) Goldsmith's Bee, p. 173. this under E. o.
ENGLISH,	composition, examples of its steady improvement: Irv. Elem. Comp. p. 206.
ELOQUENT,	remarks on slavery: Cunningham's World without Souls, p. 87.

SIEGE,	of Jerusalem by the crusaders, awfully cruel and bloody: James' Hist. Crus. p. 170.
SABBATH,	common modes of unhallowing: Wilberforce's View, p. 123.
"	probably lost during the bondage of Egypt: Wilson on Sab. p. 116.
SOCRATES' &	Christ's doctrines compared, (weak and puerile) Jeff. Writ. v. 3. p. 507.
TOOKE,	John—frugality while a student: Am. Quart. Rev. vol. 5. p. 391.
TRIFLING,	a most beautiful specimen of: Cowp. Corres. p. 171. dat. Nov. 30, 1783.
UNITY,	of the Godhead, fine argument for: Yates' Vindication, p. 58.
UNIVERSAL,	salvation, Lectures, condensed and good: Appleton's Lects. Lect. 21, 22, 23. Edwards against Chauncey, passim; (unanswerable.)
VARRO,	beautiful Letter to, from Cicero: Cic. Epist. Lib. 6. Ep. 2.
VOLUPTATE,	et temperantiâ de, Socratatis disputatio: Xen. Memorab. Lib. 3. cap. 1.
WORLD,	to be renewed and its material parts to be immortal: Chalmers' Sermons, ser. 7.
WILBERFORCE,	character as a speaker: Port. Rhet. Reader, p. 250.
XYLOCHARTION,	or bark-paper, description of: Am. Quart. Rev. vol. 2.
YOUNG,	men, importance of: Hawes' Lect. Lect. 1.
ZALEUCUS,	his propitiation for the adultery of his son: Fuller's Works, vol. 2. p. 808.

I have here copied at random one or more specimens under each letter. The selection might, of course, be carried to a much greater extent, but these examples are sufficient to shew the design and method of using this Index. No language can describe the value of such an Index, after it has been growing under the hand of a diligent student for some years. To such I now commend it, hoping and believing that they will find it answering its sole design, which is, to aid them in preparing for usefulness. At the close of the Index is an Appendix which can be used as each one pleases; perhaps for the purpose of recording such facts as are not likely to be met with again.

Northampton, Dec. 1, 1833.

A a

A	e
Amber. Flora of.	Göppert. Bulletin Berlin Acad. 1853. pp 450-95 and Geol. of Brow. N. Patrick & Min. 1853. pp 7 ws. 149
Amber. Nat Hist of	Journal Geol. Soc. Lond Feb 1. 1854 Translations
	Quarterly Journal of Science 1868. p. 1867 Dr G. Goddard

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A

Advice good, to the passionate - Sunday Evening Lt. p.30

Arnold — Rev. Dr. North American Review. Oct. 1844 —
Life & Correspondence ——

Artesian Wells. — Well of Sperenberg. Canadian Naturalist
Vol. VII. No 7 p 428. refer 41 1/2 g. Inf. 114 d 7
Geol. Survey of Ohio Vol. I
Report of St. Louis Asylum
Louisville Well. Alna Journal. See
Toledo. Well.
Charleston Well
Terre Haute
St Louis Belcher mud

Λ u

B	a
Black Band ore	Musket. on. Iron Making

a B

B	e
Bell. —	of Guinea. Catalogue Silliman Journal Vol. 3. 1821.

e B

B	O
Brongniart	graphic & powerful description of Bot Chet. Rev. p 248
Bowditch Nathaniel	Interesting memoir, Phi Delta library. By N. I. Bowditch. See appendix page 1st —
Botany.	Catalogue of Common & other. Jour. Science Vol. 1. p 359
	Do Do Do 77
	of the Cherokee Country — Do Do Do 365,
Brongniart,	Alex. Letter to Prof Silliman. Jour. Science Vol 5.
"	Adolphe Author. of Fossil Veg. Foss —

Building Stone

Decay of — Julien Trans. Acad. Scien. NY
" " Proc. Philos. Soc. Glasgow Vol XIV 1883 p. 22

Superficial Induration of Sandstones
M. E. Wodemann
Proc. Bost. Nat Hist Soc

R. D. Irving
Am. Jour. Sci June 1883 p. 403

Geikie
Text Book of Geology pp 158, 333

B	u
Bunbury C J F.	Fossil Plants from Richmond Va Quat Jour Geol Soc Vol III. p 281
Bunbury C J F. Note Book A 1852 p 130	Fossil Plants from Alabama

Byron. Shelley and Wordsworth. Biblical Repository Jany 1839—

Bunbury C J F.	Fossil Plants from Frostburg Md Quat Jour Geol Soc Vol 2d p 182 See Note Book A. 1852 p 130.
Bunbury C J F. Note Book A 1852 p 134	Distribution of Recent & Fossil Foram Op. Cit. Vol III. p 81 Of 42 species.

Dawson

II B

Bunbury. C. J. F.

Fossil Plants from Nova Scotia
Quart. Jour. Geol. Soc. Vol III p 423

Lect of Num species
Neuropteris Cordata
N. ligens ?
N. flexuosa
N. gigantea var
N. rarenervis
Cyclopteris oblique ?
Odontopteris Schlotheimi
O. subcuneata
Dicelopteris oblique
Pecopteris longifolia ?
P. taeniopteroides
P. nervosa
P. planosa
P. abbreviata ?
P. polymorpha ?
P. cyathea ?
Sphenopteris obtusiloba ?
S. artemisiifolia ?
Sphenophyllum Schlotheimi ?
S. erosum
Lepidodendron elegans
L. gracile = L. elegans ?
Leaf long. 2 in. 1/6 in broad
L. Undulatum ?
L. — Lacularium small
L. tenerrime
L. tumidum
Lepidostrobus trigonolepis (n sp)
Sigillaria elongata ?
S. lineolata — Stig. ficoides
Cal. approx — C. Rayneriana
C. Stokesii — Asterophyllites foliosus
Asterophyllites equisetiformis
Dendrolites Cupulatum — Dicoscytum
Sigillaria organum S. Sauli
Ast. tuberculata

Fossil Fr. N. cordata & var angustifolia N. flexuosa
Pecopteris Cyathea P. arborescens P. Pluma
Sphenop. Schlotheimi Lepid. obovatum S. acculeatum ?
Tumulum Cupulum —

Pecopteris Mad
N. Cordata N. gigantea — rarinervis
P. arborescens P. Ethmata Lepid. acculeatum
S. Artemisiifolia — Sig. lineolata — Cal. rodeana
Asterophyllites foliosus — A. tuberculatus

Ohio
N. Cordata — Pecopteris P. Plumosa
S. obovatum — S. acculeatum
S. Stenobasis, Sig. tessellata
S. marchanum — Cal. Sphenophyllum
C. Stokesii — Ast. polyphyllum

Sigillaria

7
1c. Leaf hairy
3
2
4
5.
6

Odontopteris subcuneata (n sp)
Sd.

Lepidodendron tumidum (n sp)
Fig 7

7
8

L. tenerrime (n sp)
Fig 8

Indiana
N. Cordata
Cyclop. oblique
Lepid. obovatum

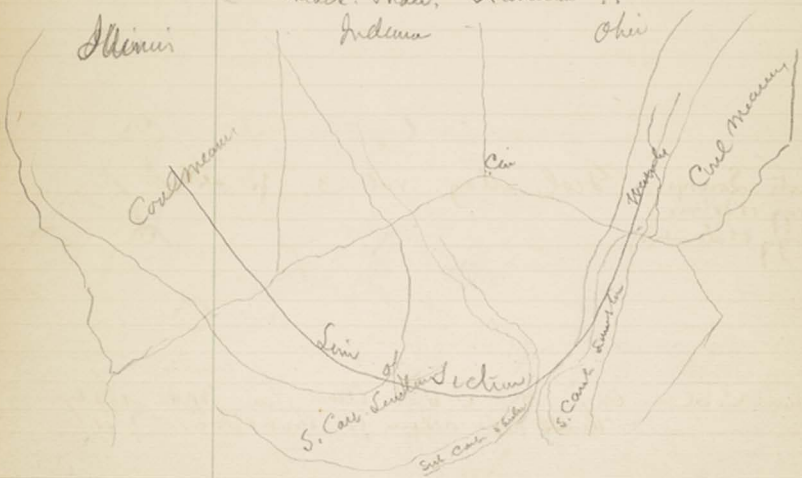
C	a
Capital punishment,	New Englander. 1843.
Classical Studies.	New. Englander 1843, p. 580.
Carey. Arthur	Cause of the Episcopal Controversy. New Englander 1843
Caves. &c	in Tennessee – Conn. Academy, Vol. 1 p. 429.
Carboniferous Strata	– Eng. Ireland & Continental Europe. Jukes Geol. Mag. Vol III p. 74

Sub Carb. Sandstone of Kentucky & Illinois

Ohio — Coal measures &c — Carb. Conglomerate

Kentucky	Illinois
Sub Carb. Sandstone	Sub Carb. Sandstone

Black Shale, Hamilton ?



Su.. Fossil Plants

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Carb. Flora	Structure of Coal Plants: Anabathra + Sigillaria E. W. Binney. Geol. Mag. vol 3 p 126	
	Hemenghts + Lepidodendrons Structure & affinities Carruthers. Geol. Mag vol. 2 p 433	
	Lepidodendron Carruthers Geol. Mag vol. 3 p 428	
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	Caulopteris pinnata (Lepid. pinnata) Cretaceous Carruthers Geol. Mag. vol 3. p 484	
	Calamite fruit Geol Mag p 544	
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	Lukey	
Charts. Lowrys. Zoology + Botany Geology + Palaeont.	Geol. Mag. vol. 3. p. 464	
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Cannel Coal	Origin of J. S. H. Amer Jour Mar 1852 "Ancient peat allied to 'Peat & do use'" p 16	

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" in Devonian in Ireland. Nuckness. Eden. Ann Phelps. Jour. New Lois Vol. 2 p 245

" slaty in Devonian - Mechanical theory of -
Sorby. Phil. Mag. 4. Ser. Vol 11. p 20. 7
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" Slaty Compared with crystals -
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" " On Tyndall theory Sorby " " " " " 127

" Observations on Sorby paper Tyndall " " " 129

" " Cut shown of cracks - Remarks on
Reisetello " " " 196

Carboniferous - Geol. Survey of Ohio 1838
Pickett. Pabcock. 1. p 253 - Pl VI fig 16
Wyman. Bost. Nat. Hist Soc. 1847
Owen Mozarthrium - Geol. Mag Feb 1869.

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Cretaceous Flora

Brongniart Tab. des Genres p. 109
Stephen. Palaeontographica Sept 1857
Unger Genera et Species Plant. Foss.
Richardson, Geol. & Palaeontology
Phillips. Geology
Otto
Corda in Reuss. Kreide etc.
Sternberg. Beitrage
Goepp. Zur Flora des Quadersandstein in Schlesien
from Acta Vol. XIX. 1841. 8. Taf — Oct 1847. 4. Taf
Zenker
Ettingshausen Gosau flora Sarb. K K Geol. Rich
1853. Not. p. 168.
~~Andrae C. J. Foss. Flora Siebe~~
Unger. Fossil Plants of Hungary Geol Mag V 3 p 445

Cephalopes

Lydii Ag. Pons. Flor. Vol. II p. 153 Et Sog
Lydii " Allar. Vol II. Tab. 1. 16
" Lewsii "
" rostratus
" Ostrostepis mutica Geol Mag Vol VI. No 10
Oct 1st 1869. p. 471
" Dawsonii Newb (incl)
" Vorwessen Eich. Pauden. Der Cuvoderten
" Schrenkii Pauden. " " p. 84 Taf 7
Paper on Cephalopodi Geol. Mag Vol II. 519
" " " Ray Lankester
Proc. Brit Assoc. 1865
Do Do " " " 1867
Monograph of Cephalaspidean (Lankester
Palaeontological Soc. 1868.

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Chalk Flora	Unger. Beiträge zur Kenntniss der Vorweltlichen Flora des Kreidegebirges im Harze Palaeontographica. Band 5. 1857.

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Cretaceous Flora — Lower Cret. Flora. U S

Hayden Report 1873 p 50.
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Climate of Polar Regions in former times — Prof Nordenskiöld Geol. May Nov 1870—

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Crop.	Constitution of. New Englander 1843. p. 122.
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"	Experiment on. Report to Congress. W.R. Johnson	
"	English. — Musket. Iron Working	
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	Scalp in Scalp Brook	
	in Nova Scotia. 1865 652, 850 tons	
	Cannel. origin of. I.S. Newberry	
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Coniferous wood	Autunite character — No dotted ducts on the concentric layers, and the presence of discs on the lateral walls of the woody fiber	Geol. Mag Vol 3. p. 534
British Coniferous	dotted trim found in Mesoxylaceae	
Plants. Secondary.	Cantius " " " "	
Coniferous —	Pandea	
	Owen. Palaeontology	
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	Mems. Geol Magazine	

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Clathropteris meniscoides	Geippert Gall. Pf. Foss. (Camptopteris platyphylla) L. D. Pl. ~~XXII. fig 4~~ Systema Filicum Foss. 52 59 to 61 pl XX fig 7 Bong. Tab des Genres. 32. Veg. Foss. p 131. 132
	Brong. Lethaea Geognostica Vol. p 140 Index Palaeontologicus Vol. II p 22
C. rotundicaulis	Hitchcock E. Jr Amer Jour Science Vol. XX. p 22 (Aug 1855)
Anfractuosities of Fossil Cycads	See this book F.
	Geol. Mag. Vol 3. p 534.

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	p 170. etc
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Coal Fields of Pennsylva	Map of Quarterly Journal of Science 1866 p 459
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Dangers — of our Country New England &c. 1845. p. 493.

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Sediments at mouth of Delta General Conditions modifying
Lyell. Principles of Geol. p 252.

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Edestus vorax	Prof J. Leidy – E. Vorax
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Inlier. Origin of Valley. Geol. Mag. vol 3 p 232
Scrope " " " 241

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Observations on Laurentian Surface Canada
Notes on Basins of Great Lakes,
Isolated mountains in Great Basin
Mesas of New Mexico —

Eocene Flora. Prestwich J. Quart Jour Geol Soc
Vol X p 75

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Saporta Comte de. La Flore Fossile des Tufs Pliocenes de Meximieux
Assoc. Francaise pour l'avancement des Sciences. 2a Session.
Lyons 1873 p 457

Interesting & valuable comparison of the Pliocene flora of S. France with that of the Miocene & Present of Europe. America &c

Sauvage. Faune Ichthyologique de l'époque Pliocene
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On p 445. Origin & relations of Palaeoryctes showing land connection on the north between Europe & America

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" Poss. Foss. du Vieux Grès Rouge

" of Connecticut. Redfield.
Proceedings Amer. Assoc. Cincinnati
American Journal Science
Annals. Lyc. Nat Hist Vol IV

Egerton. Sir Philip. de Malpas Grey
Journal Geol. Soc. London
Vol VII. part 1st

Orthacanthus Decheni. — See O.

McCoy. Brit Palaeoz. Foss.

Gebel. Genus Elonichthys.

Newberry J. of Cliff. Limestone. Annals of Science Vol. 1. Art.
Bulletin ~~Proceedings~~ of National Institute Jan. 1857
" Of Carboniferous Rocks of Ohio
Proceedings Phil. Academy April 1856
Prof. Amer. Assoc. Albany Meeting
" " Cleveland Meeting

W. C. Redfield — Fossil Fishes in Vergennes
Amer. Jour. Scienc XXXIV 201. Apr 1838
Short notice of fossil fishes " XLI July 1841
Fish beds in New Jersey XLIV 154. Jan 43
Post pleiocene deb. of Rhode Island
Proc. Amer. Assoc. Chic. Meeting 1845
Relations of Foss. fishes of Rhode Island Amer. Assoc. Albany 1856

i F

Von. Fishes

Of the Albert Mine N.B. C.T. Jackson. in Pamphlet. report.

Note on do. by Sir P. Egerton Dom Geol. Soc Lond. August 1853. p 115 — He says. they are Palaeoniscid units from Permian & Triassic Species

— Remarks on the foss. fishes by Agassiz Proc. Bost. Nat. Hist Soc 1860.

Agassiz says. they are Jurassic — (I cannot but think him wrong. Dict)

See Rep Pois. Foss, Texts Vol. II. p. 43.

57

Platysomus & allied Genera. ~~John Young~~ Geol. Mag. vol 3, p 174 Lit Soc London Feby 1866 p 25

New Cat. Genera of Cranoglenyan Ganoids John Young M.D. Geol Soc London June 1866 Geol Mag vol 3 p 374

Prof Huxley's classification of the Ganoids Geol. Mag Vol. 5. No 9. p 429 Sept. 1868 9

Monograph. Fishes of Old Red Sandstone James Powrie & E Ray Lankester Palaeontograph Soc Vol XXI. Geol Mag. Vol V No 9. p 425 6

Huxley's Investigation of Ischnacanthus Dicksonii (Lipidaspis) Geol. Mag. Aug 1868 p. 376 (Vol V)

New Genus of Clinopodus. (Clinokodus?) Barkas. Geol. Mag Nov 1868

(over)

Théollière Jurassic Fishes of Bugey Bull. Soc. Geol. de France Vol XV (1858) p 57

Cope. Green River Fishes
Newberry Devon Sys. Vol. 1873. p 461.
" " 1875 " 420 (p 429 Chelon Pomilus)
Lindg. Foss Vertebrates Pl. XVII.
Cope. Bulletin Vol III No 4 p 80
Palaeontological Bulletin Mar 25
Bulletin Nov 2. 1874. p 57

Floral Calendar. — Phacelia Mufs — Jacob Porter M.D. Phil. Jour. Vol. 3.

Forests, Reproduction of. — Am. Journal of Science
Second Series Vol. IV No 2. Sept. 1847
Causes of the Changes of vegetation following the destruction of forests, by the axe, or fire.
J. W. Dawson

Fossil Fishes, contd from last page

Fossil Fishes of Mt Lebanon, notices
Geol. Mag. Vol. IV No 2. Feby. 1867, p. 72

Owen — Jaws & Teeth of Cribelodonts, Owen
Geol. Mag. Vol IV No 2. Feby 1867, p. 59

Powrie — Cheirolepis from Old Red S. Stone, Powrie
Geol. Mag. Vol IV. No 4. p. 147

Lankester — Dedymaspis, Newton, Cephalaspidi fishes, Lankester
Geol Mag. Vol. IV. No 4. p. 152

Cocchi, Nuova Famiglia di pesci Labroidei 1865. Makes Phyllodus one of the Labroids

Powrie James. — Acanthodes, Clenaletes &c &c
— Impalaeus article —
~~Trans. Geol. Soc.~~ Edinby Vol. I. pt III
1870, p. 284

Hallam & Tr Wright
(on) Fishes of Trias, Palaeth. d. O. Geol,
Ges. XXVI p. 816. T. 29.

L. Didelot — Pycnodus heterodon
Bull. Geol. Soc. France 3 Ser. T. III p. 237

Hugh Miller, notes on Coccosteus, by Egerton
Jour. Geol. Soc. 1860.

Fossil Botany

Flora

Eocene. See Eo

Tertiary " T.

- Structure of Lepidodendron
  Hooker. Trans. Survey of Gt. Britain
  Geol. Soc. of London
  Brongniart. Hist. regni Fossilis

Carruthers. Geol. Mag. Vol. 3 p. 428

Structure of Sigillaria. E W Binney Geol. Mag. Vol 3
Fossil Plants (Calamodendra) " Palaeontograph Soc. vol for 1867

Structure of Calamites Carruthers Geol. Mag. Vol 2 p. 425

Cycads & Conifers. Vol. 3. p. 534

Anatomy of Sigillaria & Lepidodendron
Prof. John Le Conte. Smithsonian Lectures
Prof. Dawson. Acadian Geol. 2d Edition

Schimper. Traité de Paléont. Végétale 1869 & 1869

Ordovician Foss. Plants Thomas Structure
Jour Geol Soc. Lond, Vol XXIII (1862) p. 106

Notes on Diplopores of R Brown.
Trans. Linnean Soc Vol XX. (1851)

Notice of some Lycopodiaceae fossils. Ad Brongniart
Compt Rendu Aug 17 1868

Botany of a Coal Mine
Carruthers. Pop Sci Review Vol VI p. 289

Sketch of Structure of Coal plants — good

Fritsche of the Mountain Limestone
with table of Agamic & Sporic
Alex Eguton Ka. Geol. Soc. London
vol. 18. p. 94

Fossil Fuels

Sea N

Fritsche
Alex Eguton

F u

Fruit. Fossil Goppert & Berger Dr. Fruchtes et Semenetes Vrates Varia 1848.

Bowerbank. Fruit of the Island of Sheppey
Fraeler H. Die formen fruchte der Steinkohlenformation 1857
Goldenberg.
Lina & Hallw Fos Flora
Unger. Generalt Species

Rhabdocarpus Naumanni Geinitz

Fulminating powders. Caution in separate. Sou Vol.

C. emarginata Sch.

Carruthers Geol. Mag. Vol. IX. pp 49–59

(Fossil Botany Johnson Cyclopedia)

Fossil Plants: Shells & plants of Allolofe. W. Denkes
Palaeontographica. 1. Band

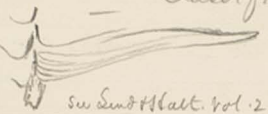
Of Woolwich Sands collected by Prestwich
J. Northen. Jour. Geol. Soc. Vol 7. 1852

Fossil Cycads. Über die Fost. Cycadeen Ent
H. R. Goeppert. Breslau 1844. – Small quarto – pp 30. pl. 4.

Fossil Cycadaceae - F. A. W. Miquel - Over Dr. Rangs etc

Classification —

Otozamites Fr. Braun (Miquel p. 6)



see Sendtbalt. vol. 2 p. 128.

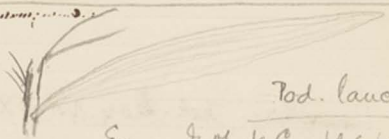
Otoz. Vogesiacus (Schimpf & Mng) the

O. obtusa

Splenozamites Presl
Miquel 6.

S. Beanii.
Sendtbalt. Vol. 1 p. 144

Podozamites Fr. Braun



Pod. lanceolata. Sendtbalt p. vol 3. p. 154

Emmons Bott. N. Car pl 3. fig. 7
Same name p. 251. not Sam plant

Dioonites Miquel

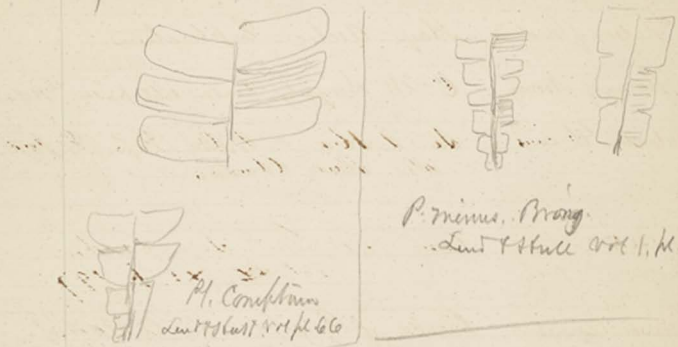
Dioonites Fenconés. Presl
(=) Feneonis Presl Prod

Ett. Zur Stat + Bot. Flor Taf III.

Pterozamites
(Miquel p. 9.

Pterozamites Hogardiana
Schimpf & Mengeh
Tab. 18.

Pteropsphyllum, Brong. Wolly surfaces Squills Phil. p. 226



Nilsonia Brong

Nilsonia

Foss. Flora of N. America Review of Lesquereux Hayden Bulletin No 5 Second Series.

Ctenophyllum

Anomozamites

Flora der Rotheglende bei Eberndorff C. W. Gümbel. Regensburg 1859

Tertiary Flora of Australia Von Ettingshausen Geol Mag Vol X. p 155. April 1883

Glacial Action — On Water Surfaces Lyell. Proc. p. 226

Glaciers of Greenland — Hays. Arctic Explorations

! Glaciers of Norway — C. M. Dougty. London 1866 p.p. 14. Geol. May. Vol 3 p. 309
Grike " " " " 456

Antarctic Glaciers — Sir J. Ross. & Walker. Exp. Exped
also Ross Charts.
of New Zealand. Hector. Geol. May. V. 3 p. 377

Glaciers in the Permian Epoch — Quart. Jour. Geol. Soc. London
Vol. ~~IX~~ XI. p. 197

Glacial Period — Duke of Argyle. Presb. Address.
Jour. Geol. Soc. London. May. 1873
Motion of Glaciers. Origin of Lake Basins &c

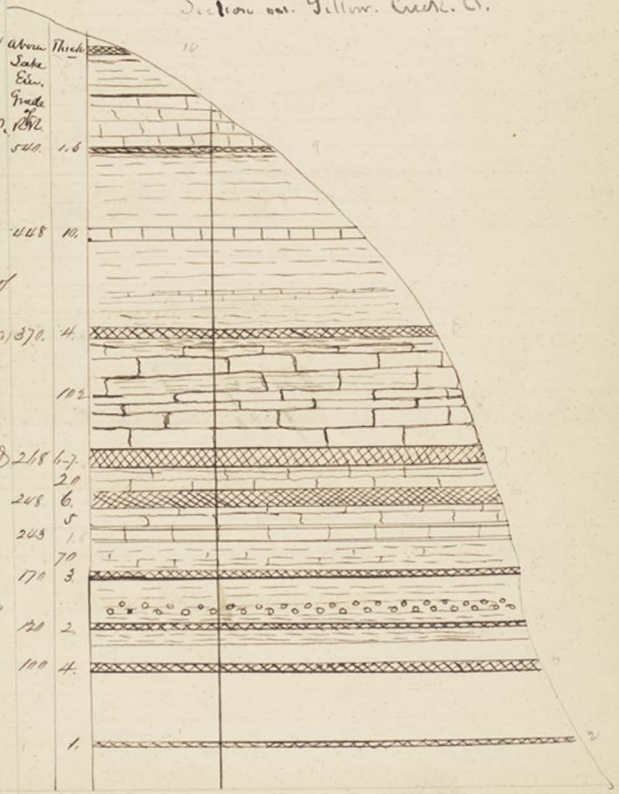
Glacial Movement
J. S. Newberry. Geol. of O. Vol. II. Chap. XXX

Plasticity of Ice
Pfaff. Pfaff. Edinb. Phil. Mag Oct 75 p. 333

Geology of Tennessee &c. By E. Cornelius Jour. Sciences Vol 1. p. 226 & 317.

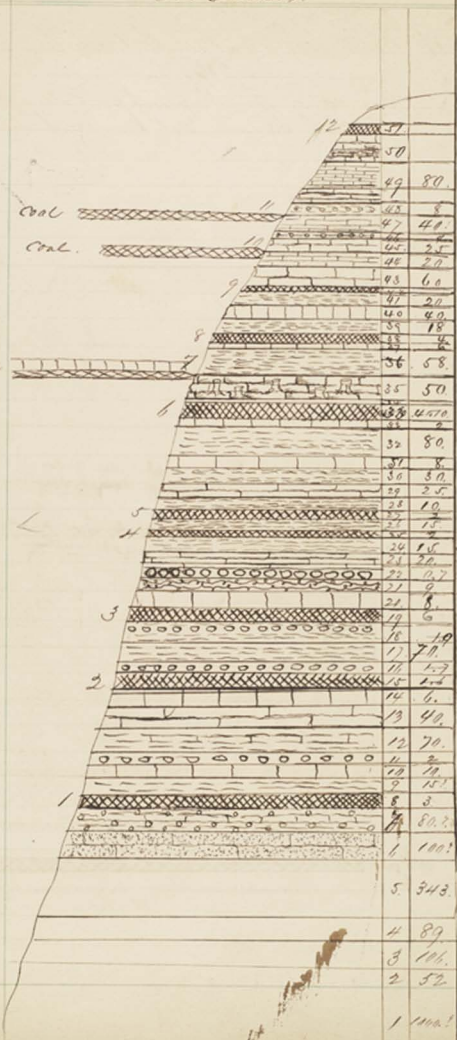
" Geology &c of the Mississippi Valley. By S. Bringer. Jour. Science Vol. 6 1820

Section on Yellow Creek. O.



Geological Section of the rocks by my between Cincinnati & Marietta O
E. B. Cluckens.

G



Geological section of Coal Shales
Tuscarawas Co Ohio — J S Newberry
May 10th 1869

G

i.

Shales with
thin bands of
Sandstone or
Sandstone in thin bands

Blk band of
Mauldin ore
Coal - Cumberland
Tuckahoe - Higher Vein 3½-4 ft

Shales
Sandstone 1½ feet
bedded Coarse
shale Sandstone wanting
Coal - Pleasant
High Vein - Newcastle 3½-4½

(Shales olive & sandy
also Black olive
Coal Slate - Mugale
or Slate Vein -
Iron ore 2 ft

Blk Shales
Coal best Hard Vein
Newberry Vein 3½-4½

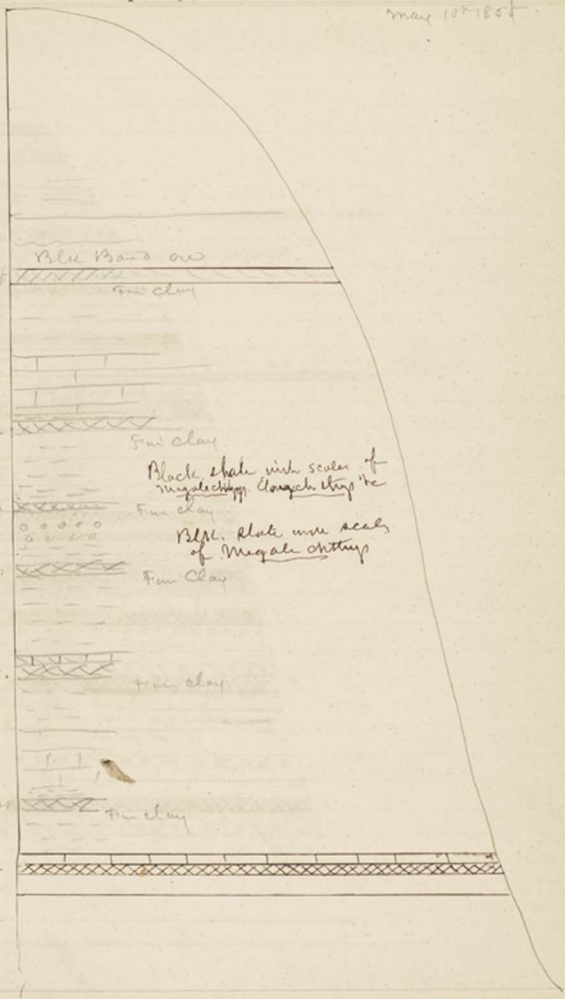
Shales Above Coal Smoky

Sandstone Sr Calcareous
flag sandstone -
Coal 2 - 3 ft grid
olive Lebanon
Shales

Sand & Stone

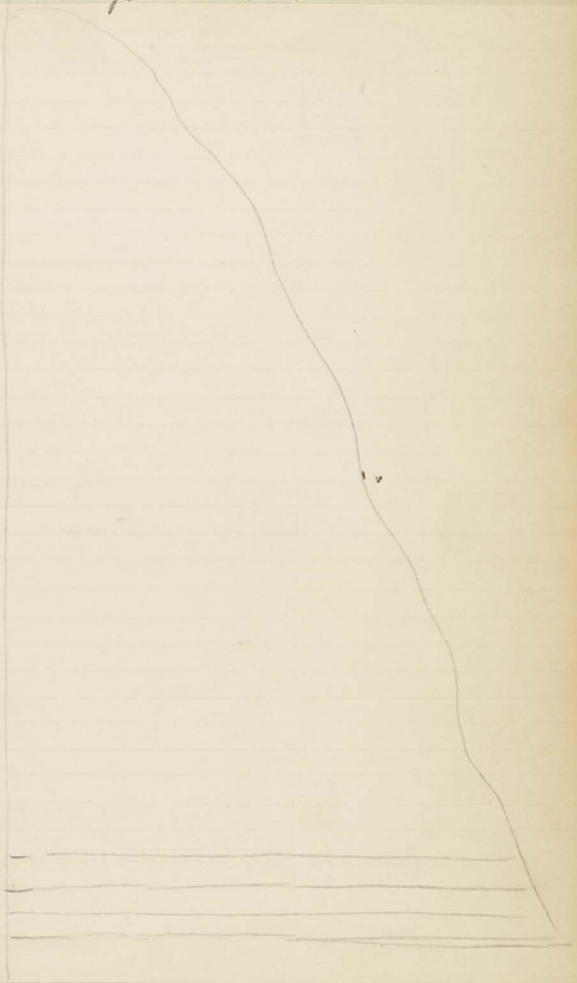
Blue shale often wanting
Coal Sower Sandstone Vein 2½-4 ft

Shales
Blue Schaum Sandstone
Coal - often Cannel
Fire Clay 1½-5 ft 6.



Section of Rocks from Lake Erie to Ohio
on line of A & A L RR

G



Sandstone
Shale
4 Coal.
Shale
Sandstone
3 Coal.
Sandstone
Shale
Senecastone
2 Coal, B. Boardroe
Sandstone & Shale 50
1 Coal - Brookville
Sandstone & Shale 50
Conglomerate
Chemung
Portage Group
Hamilton Group

Gold.

Produced in New Zealand to close of 1864
1,499,412 ounces. – Dublin Quart Journal Aug, 1865
" Nova Scotia 1865-6 24,876.02

Geological Position of Hand Fiber
Geol. Mag. Vol 8 p 385

Graphite
of
Ticonderoga

Chicago Mercury Journal
Aug 24, 1889. p 158.

G	H
Glyptodon	Description of Dijon Specimen Comptes Rendus 1855. XLI. 335–338

Gypsum. — Origin of. T. S. Hunt Silliman's Journal Sept. & Nov. 1859. —

Dawson.
Dana. Manual of Geol
Newberry. Geology of Ohio Erie Co

H a

Hauy – Rene Just – An Eminent Mineralogist and the Author of the true theory of Chrystalization –
Born At Dust – 1743 – Died 1822. Aged 79.

a H

H	e
Herpetology —	Thos Say. Jour. Science. Vol. 1. p 256.
Health & Geology. —	Jnal. May Feby 1869. p 79
	Jnal. May Nov. 1869 . 499

H

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H	u
Hume	David. Infidel, Metaphysical Skeptic, Author of a History of England, Treatise on Human Nature, &c. Born, in Edenburgh 1711. Died 1776. — See Am. Cyclopedia — Encyclopedia Americana, Encyclopedia of Religious Knowledge &c. —
Huron	Lake. Geology of — by Jno. S. Busby. Silliman Jour. Vol. 3.
Hydraulic Lime	Geol. Report of Canada Pine, Alms House New York nursery. ~~Elliot~~ Cyclopedia Appleton Cyclopedia Austin Lectures on Econ. Geol. Geol. Survey of Mich. p. 56. (Vicat)

Hydraulic Cements L. A. Gilmore USA
Prof Amer Assoc. Newport Meeting 1860 p 719

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T e

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I	i
Indians	right of adoption among. Mx. Pig. Shot. p. 181
Instructions for Collecting minerals and fossils,	Richardsons Geology & Palaeontology Appendix. De. La Beches How to observe Admiralty Manual of Scientf. Inquiry

I	O
Snow.	Musket. Manufacture of. Overman. Snow walking
Islands Floating.	Sedawga Pond. Whitingham Vt 150 acres, of land floating on surface of water covered with cranberries, and sustaining the 15 ft. high — As water rises, or falls, the island rises, & falls, with it, Fish are caught by boring a hole through the crust and dropping line thro. just as thro ice in winter A similar island once existed in Bangor Maine. — Many such in Florida N. Y. Post May 6th 74

Iron. Ore — Pennsylvania Geol. Reports. H D Rogers
" — Virginia Do Do W B Rogers
~~Dilpage~~ Of. Lake Superior – C T Jackson 1849
" " Foster & Whitney Rep.
" " Do Do " "
Of. Ohio, J. Newberry. Rep. to A & Lat L RR
" Geol. Report 1837. S. P Hildreth
" Report of Sullivan & Pinto, on Diamond Co
+ of England (Hunt.) Quart. Jour. Science Jany 1865

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Jurassic Flora	Andrae. C. J. Fossile Flora Siebenbürgens. u. der Banates — Abhandl. K.K. Geol. Reichsanstalt II. Band. III. Abtheilung No 4 1854
	Unger. Einige. Foss. Pflanz. — Aus dem. Lithograph. Schestag. v. Sternberg Palaeontographica 1852
	" Die Foss. Flor. v. Gleichenberg Denkschrift. K.K. Acad. VII. B. 1854

K a

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Zeitschrift Deutsch Gesellschaft
XXIX 1. 1872
Claus, Phronapis Scaphaspis &c an
Crustaceans –

Landscape. Gardening New England as 1843.
" " N. A. Rev. Oct. 1846 —
" " A. J. Downing. Riley & Putnam —
"

Lake Orgn of. Prof Ramsay,
Duke of Argyll Geol. Soc Lond May 73. p. LXX

Labyrinthodonts. Labyrinthodont Remains Up Carb Coal
Bohemia by Dr Anton Fritsch —
Nature Apr 21. 1876 p. 457.

a L

L e

Limnea. Genus of univalve fresh water Shells. Sci. Appr. p. 1st.

L	O
Longevity	of Trees N. A. Rev. July 1844 —
Loghlen —	American — N. A. R. Oct. 1844 —
Loyola Ignatius	Founder of the Jesuits. N. A. R. 1844.
Longevity —	
Locust —	

Lying. New England aller 1845.

u L

M a

Manners & Society New Englander 1843

Mammoth Man. Israel Ellery. Feby 1869

M	e
Memory	The Roman method of St Patel Pro p. 106
"	Remarkable example of in a painter 112
"	Affecting bodily organs - " " " 105
"	Remarkable instances of " " " " 69 & 70
Meerschaum	of Asia Minor J L Smith Proc. Amer Assoc Albany 1856 p 270

Meteorite.

I. Daubrée Arch. May. Vol. 3a
I. L. Smith. Silliman Journal

Missionary — Cause — See page 2 of the Appendix —

Michigan. — Order of superposition of rocks of Michigan from Prof A Winchell. Aug 27. 1860

1. Woodville Sandstone
2. Coral ~~[illegible]~~ Cliff
Porous Sandrock no fossils
except stems of Lepidodendra } 100 ft

2 Coral meadow —
Mostly black bituminous shale with
layers of sandstone & calcareous matter
one bed of coal. 3 ft thick } 100.
thick hard fire clay with stigmaria

3 Parma Sandstone.
Light gray & white. Mostly hard
& coarse sand of stone — with obscure } 60
vegetable impressions —

4. Black Limestone, Coccoteus 6.8
generally massive — many fossils
principally brachiopoda — no Archimedes
under middle part of fossiferous sandstone

5. Upper formation —
Gypseous shales & marles — with
many gypsums — & fibrous gypsum —
color of clay — greenish gray & red } 169
& bluish & red — Salt is in that
remaining toward the bottom of stratum

6. Napoleon Sandstone.
pale buff micaceous sandstone
with fossils & specs with calc
cement — No vegetable remains } 116

Sometimes calcareous here 2 — 20 ft clay
Marchand found in Napoleon sandstone

7. Marshall Sandstone
More frequently thick colored in upper part — in thicker beds and blocks — Sometimes concretionary — Some iron stones with fine traces — Shading below into blackish fine grained sandstone with layers of shale below the beds — The Lake Home sandstone forms here — Fossils abundant about middle of series & the sandstone grit — Chrysodomus alice immediately above sandstone grit — 100

6. Hamilton Shales —
in South of state Clays with kidney ore at top — Some Atrypa fossils — Spirifer.
Then Black shale with a few Spirifer —
Then Pahedge part limestone & shales with many Bryozoa
Then Black bituminous of Thunder Bay island —
Then Eight fathoms dark limestone

9 = Upper Helderberg
In Monroe Co. — Some Helderberg
Water lime —
Schistified & fossiliferous —
Thin, broken & salt group
Then Stromatopora marble like limestone with Hettes —

Mineral Veins — Over

Morals - Manners & Poetry of England - N Amer. Review July 1844.

Mineral Veins. Filling of. Daubrée - Formation of Metallic Sulphides. Proc. Mag. Oct 1875

M u

Musical Temperament, Prof. Fisher, Sour. Science. Vol. 1. —

N a

N	e
Neoceratodus.	Neoceratodus Blanchardi Sauv. in River Fitz Roy, Queensland weighs 140. to 90. lbs occurs with Osteoglossum Leichardti weighs 25 lbs Ceratodus Forsteri occurs in Burnett & Condamine rivers Grands Journal de Zoologie See also Hyperlia (Ceratodus) Schlosseriana Eun. Port. Pat. IX.

N i

N	O
Nomenclature	Report on Scientific, Laws of Priority, Mode of formation &c Silliman's Journal 2d Series Vol 2 p 423 Proceed. Bost Nat Hist Soc 1845 p 69.
Nomenclator Zoologicus Agassiz	Silliman's Journal Vol. X 2d Series 1850 p 302
Nosograthia,	Relations to Living Plants, A Bongniart Compte Rendus. Dec 29. 1845, Zoological Magazine 1846. p 100
	Descriptions of Species, and discussion of relations. Über das Vorkommen etc By. Ottokar Feistmantel Zeitschrift d. Deutsch. Geol. Gesell. XXVII Band 1. Heft = 1875. S 70

N u

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Ocean Currents. | Dynamics of. A. E. B. Hunt. Silliman's Journal. March. 1859

Ophiacanthus Decheni. | Described in detail Jon. Inst. Sci. London Vol V. p 21. of Notices Kellemann, astud

Origin of Cannel Coals J. S. Newberry
Amer. Jour. Science March 1857

of Sandstones and Shales of U States. J. S. N.
Proc. New York Meeting Am. Assoc 1856

of Mountain Chains. — do do do

of Petroleum J. S. N.
Ohio Agric Rept. 1859.

of the Asphaltic Coals. Albert. Tatane
Parkersburgh &c

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O O

Oolitic Flora

De Zigno Achille Sulla Flora Fossile dell' Oolite. Venezia 1856. 8

Bornemann J. G. — Ueber Organische reste der Lettenkohlengruppe Thüringens. etc Leipzig 1856 4.m. ~~Berlin 1857~~. XII. Tof 4.Rtz

De Zigno. A. — Flora Fossile, formationi Oolitheca — Fascicoli I. Con. tav. Padova 1856. 4.

p	a
Party Spirit	New Englander. 1843. p. 817
Pneuma. —	of the Mat. By C. Atwater, Jour. Scienc Vol. 1. p. 116
	" " " R. H. Heller. Do. Do. Do. 331.
Plastidules and Paugenesis	Elsberg. Proc. Amer Assc. 1874
	Hereford " " " 1876. Buffalo.
	Ray Lankester, general review of Elsb. & Haeckel, plastidules, Herbert Spencer "polar forces" of vital units, and of Darwins gemmules.
	Darwin supposes Every cell throws off gemmules which are transmitted and enveloped, multiply by fission and produce Atavism or heredity, and the transmission of male organs through female that doubtless pump them &c &c
	Spencer suppose a specific and peculiar force a transmitter instead — (another name for the same Haeckel & Elsberg
	All mostly pedeing complete ignorance under names only —
	Nature July 13th 1876 p 335

Palaeontology
—
Pikermi

. Fossil Mammals of Pikermi A Gaudry
Geol. Mag. Vol 3 p 218. Compt. Rend. July 19. 1866
Interesting paper on Elephan. Mastodonts &c

Palaeoneseus.

Family of. Discussion of nots descriptions
of. New Species
Sir Philip Egerton "Palaeichthyologic Notes
No 3. Lon. Geol. Soc. London. 1849.
Vol. VI. Article 1st.

Permian Flora

Geology of Russia Murchison Verneuil & Keyserling

Geinitz H.B. Die Leitpflanzen der Rothliegenden & der Zechsteingebirge oder der Permischen Flora von Sachsen – Leipzig 1856. 4. (38 p. 2 t. lithochrom.)

Gaembel, C. W. – Beiträge zur Flora der Vorzeit namentlich der Rothliegenden bei Erbendorf &c. Denkschriften der K. bayer. botanisch. ges. Gesellschaft zu Regensburg IV. Band. 1ste Abtheil. – Regensburg 1857

Brongniart A. Tableau des Genres –
Unger Genera Et Species
Eichwald Geology of N. Carolina

Permian Rocks, Their claim to be regarded as a distinct formation — D. M. Kirkby
Jour. Geol. Soc. Lond. Vol. XVI. p. 412

Petroleum T. S. Hunt. Bitumens &c
Sill. Jour 1862 March. p 157

Petroleum — in Coal Mines
Trans. Manchester Geol. Soc Nov 5 1861. p. 62
formed from Peat E. W. Binney
Geol Mag Vol 3 p 272

Origin of, Ed C. Day. Geol., Mag. Vol III
Wall
" T. S. Hunt Proc Amer Asso Buffalo
Canadian Naturalist
" clay in Peat. Geol. Mag Vol VII. No 9. p. 431

Peat. L. Esquerex. Quelques Recherches sur les
Marais Tourbeux. en. General. 1844
" Exploration dans le Nord &c. 1846
S. W. Johnson "Peat & its Uses" 1866
T. C. Dawson.
Quart Jour. Science No XL p 468
Oct. 1873.

P	i
Pleurapis.	said to be Crustacean see Kunth
Pleurobrachia	Eschscholtz. Jour. Nat. Soc. Lond. 1846. 302.

P

P	O
Post Office Reform.	Very interesting article. New Englander 1843 —
Pronunciation	of Classical. Scientific Names. Rules by Thos Gay. See Appendix page 1st.
Prophecies of Daniel	New Englander 1843.
Porridge — Water	— Boil 3 half pts water — stir into 1 half pt milk 2 table spoons fine meal — 1 of flour — pour into the boiling water — boil 5 minutes — Season to taste —
Phosphate of Lime	Deposits in Spain. Gwl May 8. p. 1446

P	u
Puritanism	American New Englander. 1843.

Pychnophyllum Brong. Synonym of Habellaria brassifolia Sleum
= Cordiaites brassifolia Ung. Syn. Et. Spec. 1850
Brongniart published Pychnophyllum. Tab. des. Gen. 1849

Q u

R a

R	e
Repudiation	New England Ter. 1843. p. 534.
Reptiles. Fossil	. Carboniferous of Ireland & Nugent & Stokes Geol. Mag. Vol. III. pp. 4. 84. 165

e R

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R	O
Rosseau, John James,	Born. Geneva. 1712 Infidel Author of Eminence Died 1778. A.66. See New Englander 1843. —
Rhode Island. War.	New. Englander 1843.

R u

S a

Stephens John L. Author of Travels in Arabia Petræa & Russia &c
Yucatan 2 Vols. Chiapas &c Vols. —
Lawyer in New York, Fine Writer —
pr Review of Travels in Yucatan &c in England 1843

Smith. Rev. Sydney - His writings - N. A. R. July 1844 -

S	O
South American Geology	Notice of Bahia Fossils by Allport Jour. Geol. Soc London No. 63
"	Agassiz. Lectures at Cooper Union 1867 / Tilton
	"
	" Hartt. Report on Geol. of Brazil

S	u
Surface Geology	Buried River Channels in Holland Lancs Crowe Trans. Geol. Soc. Glasg. Vol. 1. Pt III 1870

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Tuste & Fashions.	Fine Article New Englander 1843.
Transcendentalism	33. 33 p. 550.

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Tertiary Flora	Massalongo (Abramo) Sapendicearum Fossilium Monographia. Veronae 1852. 8. 29 p. 6 tab
	„ Nota sopra due Frutte Foss. del Bacino lignetico de Leffe nel Bergamasco Bolog. 1852. 8vo. 7 p. 1 tab
Brt. Hist. Nat E. A. Zuchold 1. Heft 1857	„ Breve revista dei frutti fossile &c. Verona 1852. 8vo. 8 p. 1 tab.
	„ Conspectus florae tertiariae Orbis primaevi Patavii 1852 12mo 87 p
	„ Synopsis Palmarum Fossilium Prag. 1852. 8vo 24. 16
	Enumeratio nella Piante fos. Mecene Etra Verona 1853. 8. p. 28
	Goeppert H. R. Die Tertiarflora auf der Insel Java
	Heer. Oswald. Flora Tertiaria Helvetiae
	Ettingshausen
	Unger
	de Visiani Roberto Ed, Abramo Massalongo Flora de terreni terziari de Novale nel Vicentino descritta. Torino 4. p 47. 13 tab.
	Nessel Phillipi und Otto Webber Neuer Beitrag zur Tertiarflora der niederrheinischen Braunkohlenformation Abdruck aus. dem. Palaeontographica – Cassel 4to. 5 p. 11 tab

Tertiary. Flora. cont. Les. Lesquereux. Journal Science. July 1859
Fos. plants. of Oregon Vancouver. Island

Unger. Illustr Protogaea
Genera Et Species Plant. Fos.
Phytographia.

De la Harpe – Quelques mots sur la Flor Tert.
S. Aylatum
Bull. Soc. Vaudoise Jan 18. 1856

Triassic Flora	Bronn H.G. – Beiträge zur triasischen flora & fauna der bitumenosen schiefer von Raibl Stuttgart 8vo. (63 p. 10. tab. tits.)
"	Emmons. Manual of Geology p. 192

Flore du Kuper }
Brny. Tob. de Pomer }

Odontopteris Cycadea	Brny	—	Brny. Hist Veget Foss. p 38). t. 129
Neuropteris dentata	Sternb	Sternb	— Ver 2 p 136. t. 40. fig 4
Sphenop. Rossertiana	Sternb	Sternb	Ver 2. p 126. t 32. fig 3. a 1–4. 3. b
" Reclinata	"	"	Ver 2 p 126 t 32 f 6a 123. 6b
" Clavata	"	"	" 127. t 32 f 6a 4.5
" opposite folia	"	"	" " t 32 f 5. a 6.
Comopteris Schomburgkiana	St. Br.	Hist Veget Foss.	1. p 364 t 126. f 6
" Kurchneri		Sphenopteris	Gutb. foss. Schles p 75 t 14. f 3 (Sf 3+4)
tricarpa		"	" " 76. t 14. f 1.2
Hymenoph. macrophyllum		Sphen.	Hist Veget Foss. p 212 t 58. f 3
Taeniopteris Marantacea		Sternb	Bronn Lethea Geog. II. p 147. t 12. f 2
" Elongata		Brny	(in edit)
Pecopteris Stuttgardiensis		Brny	Hist Veget Foss.
" Meriani		"	" "
" taeniformis		Sternb	Ver. 2. t 33. fig 6
microphylla		"	" t 33. f 7.
Haemophlebis flexuosa		Gopp	" " t 33. f 1
" Rosserti		Sternb	" " t 33 f 14
" imbricata		"	" " t 31. f 2 a b?
Concinna		"	t 41 f 3
obtusata		"	t 32 f 2. abc. f 4
Gutbiria angulifolia		Presl	t 33 13. a–e
Phlebopteris Sandrotti		Brny	ined
Camptopteris Munsteriana		Sternb	Ver 2. p 168 t 33 f 9. Gopp. Gutb 1. p 17. f 123
Mammatopteris grenzodia		Brny	ined
Sagenopteris Rhoifolia		Sternb	Ver 2. p 165. t 35. f 1.
Sagenopteris acuminata		Sternb	" " " t 35 f 3
" Semicordata		"	" " " t 35. f 2
Cottaea Danaeides		Gopp	Jaeger Verstein. p 37. t 7.

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V	e
Veins. Mineral	Deposition of iron in Quar Jour Scienc Jany 1868 by R.S. Hunt. p36. &c

e V

Voltaire. Francois Marie Arouet. Dr Voltaire

~~The~~ New Englander Apr. 1843

The great apostle of infidelity. born near Paris 1694. Educated in the Jesuit College Louis le Grand. Precocious genius. Abandoned law. for his attention to poetry. twice imprisoned in the Bastile. visited England 1750. went to Berlin with the King of Prussia. after 3 years residence falling into disgrace returned to Paris. becoming unpopular there. he retired to the Genevan territory at Ferney. 28 years after returning to Paris. was welcomed in his last illness signed a recantation of his infidel views. and joined the Catholic Church. Dec 1778. in the arms of his friends. His remains were removed in 1791. ~~to~~ from Sciences to the Pantheon at Paris. 2 principal editions of his works. 1st of General 30 vols 4to. & that of Basle 71 vols 8vo —

W a

Water — Compressible Silliman's Journal. Vol. 3. 1821.

Waves Force of. Danas Geol Poland p 225

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W

W e

Webster. Noah. Born West Hartford Conn. 1758. Died 1843. A 85.
for a Sketch of his life see New England an 1843. p. 565.

Webster. Daniel – as an Author N.A. Review July. 1844

e W

Winds of the West. Jour. Science. Vol. 1 p 277.—

W

Wordsworth's Poetry — Review — N. A. Review — Oct 1844 —
" Biblical Repository Jany 1845 — C. Cox

X. a

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Gale – Governor. New Englandman 1145.

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Winkler	"Quelques reste des Poissons" Trigonodus Etc Arch. du Musee Teyler Harlem Vol. IV. Fas. I.
	Trigonodus praeoccupatus. by A. Fw. Thol. Survey of Ill Vol II. 1866) p 111
	Noocratodus Gurvei See. Na.

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Zoophytes. fossil. Thos. Say. Jour. Sciences. Vol. 1. p. 381.

Z u

A. List of Shells described by I. Say

Achatina Solidus	Jour. Ac. Nat. Sciences Vol. 5. p. 122
Alasmodon Ambigua	do — do. do. 131
A. Confragosa	Descriptions 1829 —
A. Edentula	" "
A. Sculpta	" "
A. Marginata	Jour. Acad. Vol. 1. 1817 —

Bowditch Nathaniel. Born of humble parents, in Salem Mass. March 26. 1773. Great Mathematician, Sailor four voyages, engaged in Commercial business, for many years President of the Boston Life insurance Co. Was highly esteemed as a Citizen, business Man, & Man of Science. Wrote many Mathematical works of which the most important are. Bowditch's Navigator, & a translation of La Place's Mécanique Celeste, with Explanatory notes:
Died March 1838. — A. 65.

Pronunciations of Linnean names, from The Sea (Withering)
E. ending a word always sounded
I long in words ending in ides
Ch. pronounced like K
in words beginning with SCI Sci. C is soft.
C in SCh pronounced hard
C & G before E or I, as & ge pronounced soft
before other vowels or diphthongs hard —

Linnæa (Genus) (Bleuinville)
Shell, oblong, ovate oval, conic or turrited, thin, smooth. Spire prominent, more or less elongated. Aperture more or less dilated, longitudinally entire. Columella at the superior part or junction with the labrum, entering the aperture by a very oblique fold or undulation. Labrum acutely edged. Operculum none —
Animal, Oval more or less spiral, margin of the mantle thickened on the neck. foot large, oval, head with 2 triangular compressed Ear shaped tentacular eyes — sessile at the inner base of the tentacules — Mouth with two lateral appendices and armed with a superior tooth. Orifice of the pulmonary cavity on the right and bordered by an appendage which can be folded in gutter. Orifices of the Reproductive Organs distinct, that of the Vivipar at the entrance of the pulmonary cavity, that of the male organ under the right tentacule.

Missionaries — There are seven hundred in the field — of whom less than three hundred are from the United States — The Population of the Globe is computed at nine hundred and ninety millions of which 70 millions are Protestants — 26 millions Greeks, 6 M Jews — Catholics 120 millions. Mohamedans 130 millions Pagans, 550 millions!!

One fourth of the Protestant population are found in the U.S. — The greater part of the remainder in England & Germany — Who have in the operatives & res. population of Britain — And the Catholic population of Germany — the Protestant much greater home fields —

The U.S. having less home field and much greater civil & religious liberty &c are better fitted for the Missionary cause than any other people — &c

Sermon of Rev. H Coe March 2: 1845 —

St Hilarys. Cradle — Youth renewing — Well of Kanathos — &c.

Times Changes —

Times changes! — Oh, Times changes!
We hav to see them come
And crumble down the cottage roof
Or rend the palace dome —

We have seen the flowers we nursed,
And cherished in the spring —
Fall withering from autumn blast
A dead and sapless thing —

The playground of our childhood days
May wear so strange a face
That not one olden ornament
Is left for us to trace

The hours that light life's morning up
May set in misty shade
And stars of pleasure purest kind
May glisten but to fade

Times changes! — Oh Times changes
They may work what we they will
Turn all their sunshine into shade
And all our good to ill —

The cheek we love to look upon
May lose its downy red
And only many wrinkled lines
Where once fair dimples spread —

The form that dearest to our eyes
May wane from every grace
The raven tresses shine no more
And grey hairs take their place —

But we can lightly smile on all
Times changes — till we find
Some well known voice grown hoarsely cold
Which once was strangely kind

The hands and eyes that used to be
The feet our own to greet
Can calmly take a long farewell
And part as calmly meet

The gentle words are passed away
And promised faith forgot
Teaching us sadly that we love
The one who loveth not

Oh better then to die and give
The grave its kin and dust
Rather live and see Times fellow change
On those we love and trust

Passing Away! — Poe

Was it the chime of a tiny bell
That came so sweet to my dreaming ear
Like the silvery tones of a fairy shell
That lie winds on the beach, so mellow & clear
When the winds and the waves lie together asleep
And the moon and fairy are watching the deep
She displaying her silvery light,
And he his music, as silvery quite—
While the boatman listens and slips his oar
To catch the music that comes from shore—

2

But No, it was not a fairy's shell
Blown on the beach so mellow & clear
Nor was it the tone of a silvery bell
Striking the hour, that filled my ear
As I lay in my dreams, yet was it a chime
That told of the flow of the stream of time,
For a beautiful clock from the ceiling hung
And a plump little girl for a pendulum swung
(As grows sometimes seen, in the little wing
That hangs in his cage, a canary bird sing)
And she held to her bosom a budding bouquet
And as she enjoyed it she seemed to say—
Passing Away! Passing Away!—

3

Oh! how bright were the cobwebs that told
Of the lapse of time as they rolled round slow
And the hands, as they swept over the dial of gold
Seemed a point to the girl below—
And so she had changed in a few short hours
Her forget had become a garland of flowers
That she held in her outstretched hands & flung
This way and that, as she dancing sprung
In the fullness of grace and womanly pride
Till at last she was seen to become a bride
(Not this when adjusting her wedding day
In the same sweet voice I hear her say
Passing Away! Passing away!—

While I gazed on that fair one, thus in shade
Of thoughts, or Care, stole softly down.
Like that by a Dove on a summer day, made
Sinking down on a field of Morning Clover,
The wee yet lay on her Chub, but its flush
Had some thing lost of its brilliant blush
And the light in her eye, and the light in the whole
That marched so calmly round above her
Was a little dimmed, as when evening steals
Upon noon's hot face; yet one couldn't but love her
For she looked like a mother whose first babe lay
Rocked on her breast as she swung all day!
And she sumed in the same sector tone to say
Passing Away! Passing Away

I—

While yet I looked, what a change then came
Her eye was quenched, and her cheek was wan
Stooping and staffed was her withered frame
Yet quiet as beauty swung she on.
The garlands beneath he had fallen to dust
The whole above her now cater most cruel
The hands that over the deal surface
Seem crushed and tuneless, but on they defet
And then there came that selem tone
From the shrunken lips of the toothless crone
("Let me never forget to my dying day
The line or burden of her lay —
Passing away! Passing away!

Cleveland, Ohio,
Dec. 9th 1846

S.B.G. ——
A.R.G. ——
A.P.S. ——
O.S.R. ——

History of the Religion of the Hindoos

The original religion of Hindostan is embodied in and derived from the ancient sacred books called Vedas. Of these there have been four, of an unknown antiquity. Written in the Sanskrit. This Sanscrit is now a dead language — and is perhaps the most copious and flexible language which has ever existed —

The religion inculcated by the Vedas is a worship of the elements and heavenly bodies — the elements being earth air fire and water — to propitiate the spirits of these elements prayers are offered and sacrifices, bloody and bloodless are made —

This form of Paganism was the universal faith and practice ~~among~~ throughout Hindostan and all Hindoos up to about the year — B.C. At that time another religious system was introduced. viz. Boodhism which teaches that all acts are powerless in propitiation the deity, that the only way to secure the favour of superior powers is by holy meditation. All animal life is sacred sacrifices of animals are much more than useless — seclusion from the world and keeping the heart and mind pure are holy things and the only things necessary —

Was the first Emperor of Hindostan who was of the Boodhist faith — was the prince to whom Sentences sent messengers and presents —

This System became subsequently the prevailing religion of Hindostan Siam and China —

About the year — this commenced a return to the ancient System of the Vedas, and messengers sent by the Boodhists of China in the year — into Hindostan to collect information in regard to the origin of the religion and their being guided — ground — and when a hundred years after another such embassy was sent: it was found much more prevalent there than before —

Vide Chinese records —

The present religions of the Hindoos is a mixture of their
two systems with an infinite number of additions and
changes — Their religious books of which there are 18 — are
in many points contradictory to each other much of
their matter being the work of a Council priest hood
who like Mahomed and his Koran, have added to
their matter as necessity arose for a new doctrine
or to correction their excesses.

Judgment is the highest attribute or faculty of human nature. The only rounded full symmetrical expression of all manly powers. — Genius is proverbially partial & narrow, one faculty or group of faculties developed, by a healthy or unhealthy growth, at the expense of others, but the man of judgement is every where strong, loves & sympathizes — And yet a single exaggerated faculty is take an overgrown feature much more certain to attract attention, and more likely to obtain applause. The judicial mind, are the pillars on which the fabric of society rests, the genius is architectural decorations, often florid & superfluous ornaments, but sometimes the glittering point that draws the fire of heaven the leads it harmless to the Earth — at once a glory and a shield

P. S. N

Man does but imitate nature. His greatest achievement is but an imperfect copy — The telegraph is but a reproduction of the

Sense of Touch — Coarsest function of the nervous system, but made to record itself a page instead of brain tissue — The photograph is vision fixed only, as yet, in black & white. Vision gives

" Vision — Colored pictures, The photograph none that will endure, The photographs of the future will be in color & permanent

Music makes record, more or less permanent on the auditory nerve, but no material record

Hearing — has yet been devised for musical sounds. — The music of the future will record itself — perhaps even the music of articulate sounds & speech.

Smell & Taste.

Taste & Smell are perhaps too subtle in their action to be

Equilibrium

Dr Hooker calls the sixth sense – the sense of Equilibrium – The rope dancer shows how this sense may be developed. the flight of birds – more strikingly – the most important problem of the future of mans earthly residence is – how to develop this sense. or copy the conditions of bird flight. as to give man power over the air, as he has at over the Earth & sea

J. S. Norbury

The inflexible and instant justice of Nature – The deflections of penalties for the infraction of human law. slow and uncertain. – tardy, lame impotent The divine law cannot be broken without the inevitable and equivalent penalty –
Collier, "Instant Judgment". Your sins shall find you out. Vices carry with them their own penalties – The drunkard, vice kills him The gambler, the debauchee sin against their own souls. and our bodies – The cigar drinker is poisoned, and the more they drink the poorer they are destroyed – The vices enervate body & mind The virtues are constantly crowded to the wall by the stronger because more virtuous – Vice is suicidal – Virtue is self creative – The luxurious the selfish are childless while the frugality of poverty supplies the loss – The Dauntless fearless, the weakest go down in the struggle of life

Analyses of Coals.

By. D. S. Newberry

No 1.

Andrews 10 ft. Seam
Athens. Co Ohio
Prof. E. B. Andrews.
Marietta.

1st. Sample		2d Sample	
Specific Gravity.	1.312	Specif Gravity.	1.377
Fixed Carbon	50.369	Fixed Carbon.	49.820
Bitumen	45.781	Bitumen	45.552
Ash.	3.850	Ash.	4.628
Total.	100.000	Total.	100.000

3d Sample
Specif. Gr. 1.307

Fixed. Carbon	51.183
Bitumen	44.885
Ash.	3.932
Total	100.000

Coal. black. with a resinous silky lustre almost conchoidal fracture. and homogeneous structure — of a highly caking character melting & consolidating with the fire —
Sample 1 — from. part of bed
do 2. fr. portion
do 3. fr. part of bed

Coke bright & handsome but. inflated & cellular.

No 2.

Cannel
Virginia
W. W. Van Nip

Specific Gravity .1452 & 1487. Mean. 1469

Fixed Carbon	40.8763
Bitumen	35.5264
Ash	23.5973
Total	100.0000

No 3.

Sheffield Illinois
W Hewett
Sept. 1854.

Specif. Gravity 1.252

Fixd Carbon	50.741
Bitumen	47.316
Ash	3.425
Total	100.000

Coal. black & bright. soft
with. Conchoidal fracture
white scale in seams. mark
but. little sulphur.
Coke. good.

No 4.
Rock Island Ill
W Hewett
Sept 1854.

Specif. Grav. 1.240

Fixed Carbon	46.635
Gaseous. Matter	50.155
Ashes	3.210
Total	100.000

Very. like the above

Coke. good
inflated

No. 4.
Bailey. Coal
Rock Island Ill
W Hewett
Oct. 24. 1854.

Specif. Grav. 1.239

Fixed Carbon	48.50
Bitumen	49.25
Ash	2.25
Tot.	100.00

Like above

Coke. good.

No 5.

Prentiss Coal
New Cumberland Va
Sept 1853.

Specific Gravity 1.325

Fixed Carbon	57.729
Volatile matter	38.721
Ash	3.500
Total	100.000

Coal. hard. compact. black
shining – melting w/ lastre
cubical moles.—
Residuf of Com. to 2. pr C
Coke good.. ash white

Alumni of Hist. Class of 1846

Amsden	R. M.	Westfield	New York	Williams College	Yorkly
Burton	N. S.	Fallmadge	Ohio	Theology	Grinnell O
Buckwell	E.	Newark	O	Theology	Vermont O
Cooley	M. N.	—	Cincinnati		
Ely	Albert	Elyria	O.	Williams College	Elyria
Foote	Horace	Caledon	N. York	Theology	Oh. Coll
Hammond		Richfield	O.	Law. Yale College	Freeport Ohio
Harmon		Warren	O.	Medicine	Warren
Gordon	J. H.	Milan	O.	Medicine	Sup. 35th Ohio Regt
Kennedy	W. S.	Fulton	O.	Theology	Dead. Deceased
Sallmann	W. P.	Erie	Pa	Medicine	W. R. College
Scott	W. F.	New York		Dead	
Stowe	C. S.	Barkhamsted	Ct		decamped
Mathews	F. D.	Berlin	O	Theology	W. R. College dead
Newberry	J. S.			Medicine W. R. Coll	Cleveland O.
Nutting	F. A.	Jones	Mich	Mus	Music professor Mississippi
Reynolds	E. W.	Brunswick	O.	Law	Medina O
Rew	D. N.	Windham	O	Theology	Wisconsin or Mich
Taylor	C. H.	Buffalo	N.Y.	Theology	Galesburg Ill.
Taylor	R.	Medicine	Dead		Illinois
Wilson	J. B.	Law	—		Grand Rapids Mich

Dead

Dead — of delirium tremens

" of Consumption

Dead

" of Consumption ?

Dead

" of fever

Öfversigt af Kongl Vetenskaps Akademien
Stockholm. Vol XXV. 1868.

Extract from a letter from Dr Oswald Heer respecting certain (Miocene) fossil plants collected at English Bay Cooks Inlet by Bergmaster N. J. Fridtjelm, with descriptions of new species, and reference to a more complete work.